tp-link | VIGI

16 Channel

PoE+ Network Video Recorder

MODEL: VIGI NVR2016H-16MP



H.265+

16 PoE+ Ports | **140W** PoE Budget

4K HDMI Output
Provides Finer Details and Crystal Clarity

Quick Playback
16-Channel Synchronous Playback*

2 SATA Interfaces
Up to 16 TB Capability for Each HDD**

Remote Management
Dedicated VIGI app and PC Client

ONVIF
Comprehensive Compatibility

Overview

VIGI Surveillance Solution

The VIGI network video recorder coordinates with camera systems to help you view, store, and play back videos.

Highlight

16-Channel Live View

Display each surveilled zone in real-time on a single interface for comprehensive control.

16× PoE+ Ports for Simple Deployment

Easily connect and power your PoE camera with one RJ45 cable transmitting both data and power.

4K HDMI Output

Show more details with up to 8MP resolution for one channel and 20MP decoding capacity in total for all channels.

Remote Management

Take full control over your security anytime and anywhere on the VIGI app or PC client.

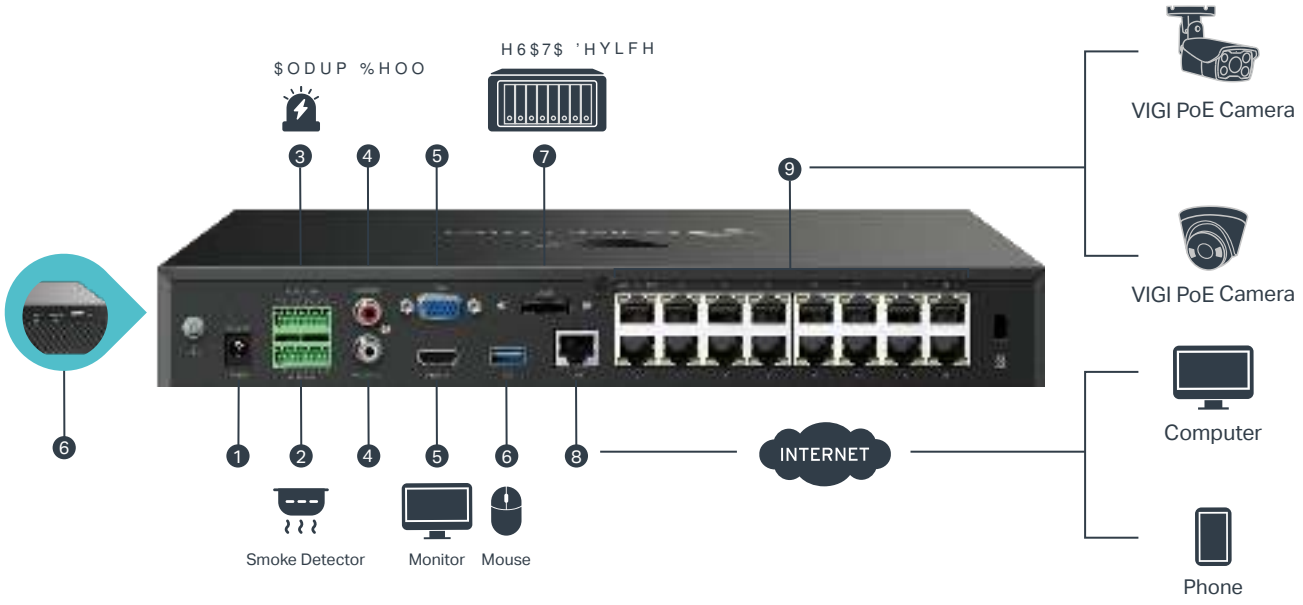
Practical Playback

Find the target footage easily by date, event types, and tags. Replay with variable playback speeds to quickly review footage. ‘

Non-Stop Recording

Stores up to 32 TB of footage from connected cameras to secure your data for quick and convenient access.

Network Topology



1. Power Supply
   · $ODUP ,1 3RUWV WR &RQQHFW ([WHUQDO 6HQVRUV
   · $ODUP 287 3RUWV WR &RQQHFW $ODUP 'HYLFHV
   $8',2 ,1 DQG $8',2 287 IRU 7ZR :D\ $XGLR
   +'0, DQG 9*$ IRU 9LGHR ,QGHSHQGHQW 2XWSXW
   · 86% 3RUW 5HDU DQG · 86% 3RUW)URQW IRU 0RXVH and Keyboard Connections
   · H6$7$ 3RUW WR &RQQHFW DQ ([WHUQDO 6WRUDJH 'HYLFH
   · 0ESV /$1 3RUW IRU (WKHUQHW &RQQHFWLRQ
9. 16× PoE+ Ports to Connect and Power Your Cameras

†HDD is not included.

‡Some features may operate sub-optimally due to compatibility issues. For best performance, we recommend using VIGI NVR with VIGI cameras.

$ KDUG GLVN GULYH QRW LQFOXGHG PXVW EH LQVWDOOHG IRU RSHUDWLRQ 6SHFLILFDWLRQV DUH VXEMHFW WR FKDQJH ZLWKRXW QRWLFH 73 /LQN

6SHFLfiFD

NVR	
Product Model	VIGI NVR2016H-16MP
Video and Audio	
IP Video Input	16-Channel
Incoming Bandwidth	320 Mbps
Outgoing Bandwidth	320 Mbps
HDMI Output Resolution	1 Channel, Resolution: 3840x2160/30Hz, 1920x1080/60Hz, 1680x1050/60Hz, 1440x900/60Hz, 1280x1024/60Hz, 1280x720/60Hz
VGA Output Resolution	1 Channel, Resolution: 1920x1080/60Hz, 1680x1050/60Hz, 1440x900/60Hz, 1280x1024/60Hz, 1280x720/60Hz
Video Output Mode	HDMI and VGA Independent / Simultaneous Output
Multi-View Display	1/4/6/8/9/16
Decoding	
Audio Compression	G.711A/G.711U/G.726
Video Compression	H.265+/H.265/ H.264+/H.264
Record Resolution	8MP/5MP/4MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous Playback	16-Channel†
Capability	• 25fps: 10-ch @ 3MP, 16-ch @ 1080P • 30fps: 4-ch @ 8MP, 6-ch @ 5MP, 8-ch @ 4MP
Record Management	
Record Mode	• Manual Recording • Scheduling Recording • Motion Detection Recording
Playback Mode	• Instant Playback • Regular Playback • Tag Playback • Event Playback
Backup Mode	• Regular Backup • Video Clip Backup

Playback Function	• Play • Pause • Stop • Fast Forward • Fast Backward • Play By Frame • Full Screen • Video Clip • Export Clip • Digital Zoom • Lock Recording r $XGLR 2Q 2‹
Network	
Network Protocols	UPnP (Plug and Play), NTP (Network Timing), SMTP, DNS, TCP/IP, UDP, ICMP, HTTP, HTTPS, DHCP, RTSP, SSL/TLS, RTP, IPv4, ARP, FTP/SFTP, IPv6, SNMP
Interoperability	219,) 3URfiOH 6 7 &*,
Mobile Phone Access	Android, iOS
Browser	Chrome (57+), Firefox (52+), Edge (91+), Safari (11+)
PoE	
Interface	1-16, RJ-45 10/100 Mbps Self-Adaptive Ethernet Interface
Power	140 W Available for All PoE+ Ports, 30 W Max per Port
Standard	802.3at/af Compliant
Auxiliary Interface	
Network Interface	1, RJ-45 10/100/1000 Mbps Self-Adaptive Ethernet Interface
USB Interface	1 Front USB 2.0 Port, 1 Rear USB 3.0 Port
Audio Interface	1-ch RCA Input; 1-ch RCA Output
Alarm In/Out	6/4
Serial Interface	N/A
Power	1× DC Jack
Reset Button	1
Speaker	N/A
eSATA	1*
HDMI	1
VGA	1
Hard Disk	
SATA	2 SATA Interfaces
Capacity	Up to 16 TB Capacity for Each HDD*

Alarm	
General Alarm	• Motion Detection • Video Tampering • Scene Change Detection • Line-Crossing Detection • Intrusion Detection • Region Entering Detection • Region Exiting Detection • Loitering Detection • Object Abandoned/Removal Detection • Vehicle Detection • Human Detection • Abnormal Sound Detection • Smart Frame Note: The alarm function requires the use of a camera.
Anomaly Alarm	• Video Loss r 2†LQH DQG ,3 &RQ LFW • Disk Exception • Login Exception • Fan Exception
Alarm Linkage	• Recording • White Light Alarm • Buzzer • Log • Audible Alarm Note: The alarm function requires the use of a camera.
General	
Package Contents	• VIGI Network Video Recorder • Power Adapter • Terminal Blocks • HDD Power Cables • HDD Data Cables • Mounting Brackets • Screws • Rubber Feet • Mouse • Quick Installation Guide
Power Supply	DC 53.5V/3.37A
Max Power Consumption	• 6.2 W (Without Disk) • 40 W (With Disk)
Working Temperature	• NVR: -10 °C to 55 °C (14 to 131) • Power Adapter: 0 °C to 40 °C (32 to 104)
Storage Temperature	-40 °C to 70 °C (-40 to 158)
Working Humidity	10%~90% RH Non-Condensing
Storage Humidity	10%~90% RH Non-Condensing
Product Dimensions (W × D × H)	13.0 × 11.2 × 1.8 in (330 × 285 × 45 mm)
Net Weight	2.2 Kg#
Gross Weight	4.2 Kg#
Certification	CE, NTRA, BSMI, VCCI, FCC, HDMI, ONVIF

Build Features



Calculations are based on laboratory testing. Actual data is not guaranteed and will vary as a result of client limitations and environmental factors.

*A hard disk drive (not included) must be installed for operation.

†The number of simultaneously playable channels may be fewer than 16, or none, if the total resolution exceeds 32MP.

#Due to the weight of this model, it is recommended to use a tray when mounting the rack with angle iron. Please note that the tray is not included.